

ABSTRACT

An antenna arrangement for dual mode radio devices such as WCDMA / GSM or Bluetooth radio devices. The arrangement contains two antennas close to each other, where a shorting switch is used at an open end of one antenna to increase isolation by effectively converting the one antenna from a quarter wave length antenna to a half wave length antenna when not needed in order to improve the efficiency of the other antenna. The shorting switch is typically a MEMS switch and the antennas are typically PIFA antennas. A radio device containing the arrangement has also been disclosed.

Fig. 1